# **Data Quality Report**

## 1. Summary of the dataset

Dataset *card transactions* contains 10 variables and 96,708 observations. The 10 variables are 'Recordnum', 'Cardnum', 'Date', 'Merchantnum', 'Merch Description', 'Merchant State', 'Merchant Zip', 'Transtype', 'Amount', 'Fraud'.

Below are summaries of numeric variables and non-numeric variables.

### **Summary of Numeric Variable**

	count	mean	std	min	50%	max	populated_rate
Amount	96708.00	427.87	10008.47	0.01	137.90	3102045.53	1.00

#### **Summary of Non-Numeric Variables**

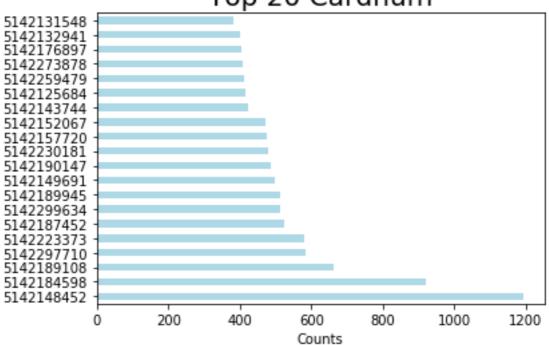
	count	unique	populated_rate
Recordnum	96708	96708	1.00
Cardnum	96708	1644	1.00
Date	96708	365	1.00
Merchantnum	93333	13090	0.97
Merch Description	96708	13125	1.00
Merchant State	95513	227	0.99
Merchant Zip	96708	4568	1.00
Transtype	96708	4	1.00
Fraud	96708	2	1.00

## 2. Detailed information for Each Field

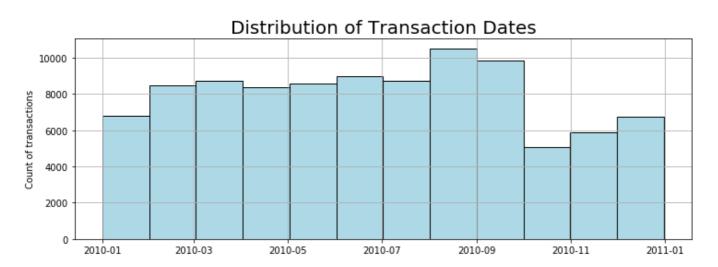
Field Name	Description
Recordnum	Index of the dataset

Field NameDescriptionCardnumCredit card number of the transaction

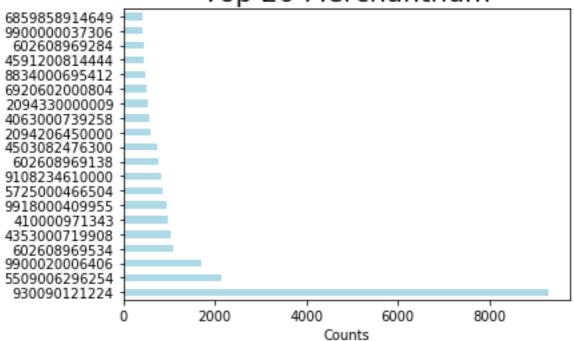
Top 20 Cardnum



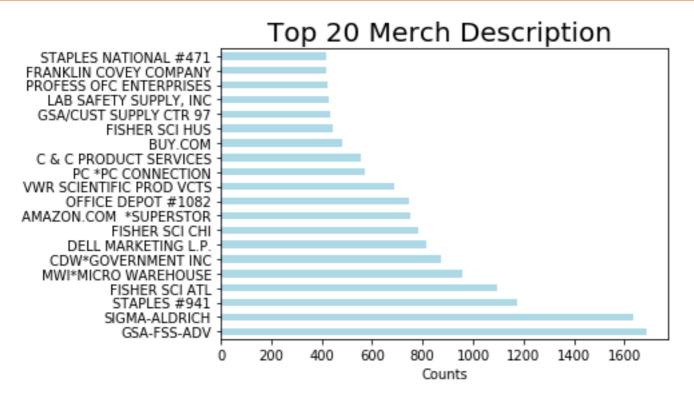
Field Name	Description	
Date	Dates of transactions	



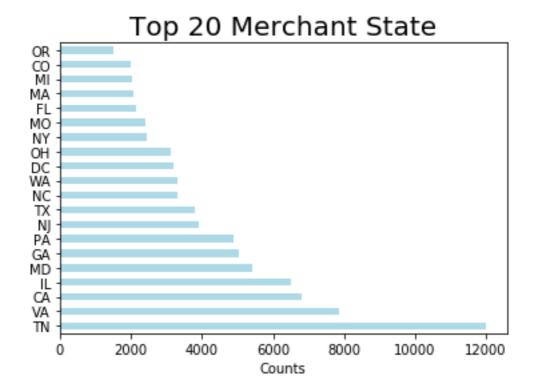




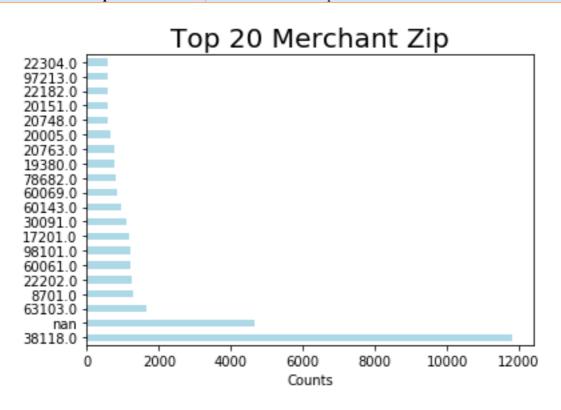
Field Name	Description
Merch Description	Descriptions of transaction merchants



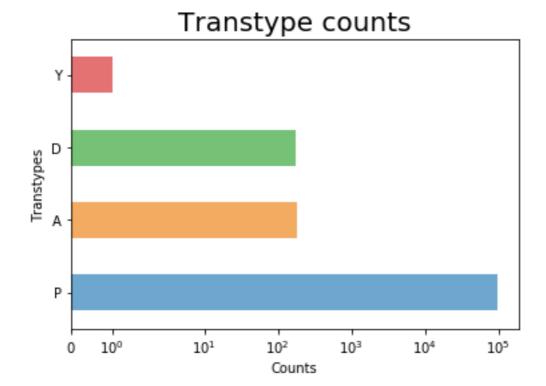




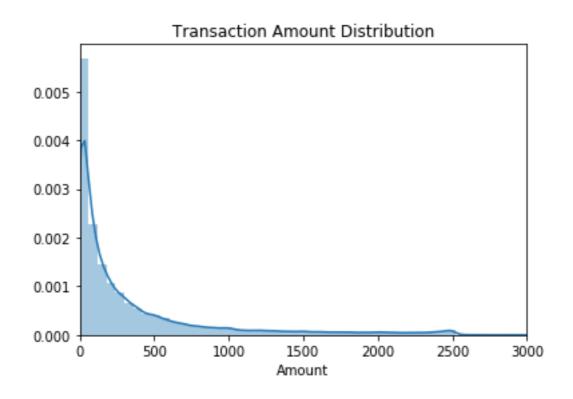
Field Name	Description	
Merchant Zip	Zip codes of transaction merchants	







Field Name	Description	
Amount	Amount of transactions	



**NOTE**Record **52593** is an outlier in **Amount**. The reason of its high **Amount** value is because the transaction was executed with Mexico Pesos.

	Top 10 Amount		52593
0	3102045.53	Recordnum	52594
1	47900.00	Cardnum	5142189135
2	30372.46	Date	2010-07-13 00:00:00
3	28392.84	Merchantnum	NaN
4	27218.00	Merch Description	INTERMEXICO
5	26910.00	Merchant State	NaN
6	25805.35	Merchant Zip	nan
7	25000.00	Transtype	Р
8	24990.00	Amount	3102045.53
9	24946.90	Fraud	0

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Field Name	Description
Fraud	Whether a certain record is a fraud or not.

